

Bioeconomy's potential for development and commercialization opportunities for biosphere projects in Russia

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Abstract

The article contains theoretic and practical study of development of the Russian bioeconomy at the modern stage. Depletion of mineral resources, adverse climate changes, population growth, environment pollution, and other factors make it necessary to ensure mechanisms of sustainable development, and act as the main incentives for development of bioeconomy based on use of renewable resources and technologies of their processing. That is why the most important task for development of the market of biotechnologies is to ensure provision with renewable resources of such economic sectors as: medical, food, and chemical industries, agriculture, ecology, maritime industry and forestry, etc. In turn, the most effective way of promoting biotechnology results is mutually beneficial commercial interaction of all participants in the transformation of biotechnology results in a marketable commodity. This process is called commercialization. In it, all participants of the innovation process are interested in achieving rapid commercial success of biotechnology. However, for the commercialization of biotechnology development requires targeted and systematic actions by the government and the private sector (tax and customs regulations, legislation to ensure fair competition, protection and enforcement of intellectual property rights). The need to develop innovative infrastructure and professionally trained specialists subject to these conditions the commercialization of biotechnology will be an effective and economically viable.

Keywords

Bioeconomy, Biotechnologies, Commercialization, Economy, Renewable and non-renewable resources